PRODUCT INFORMATION

Target	MUC16
Synonyms	CA125
Description	Recombinant human MUC16(13810-14451) Protein with C-terminal 10×His tag
Delivery	In Stock
Uniprot ID	Q8WXI7
Expression Host	HEK293
Tag	C-10×His tag
Molecular Characterization	MUC16(Pro13810-Pro14451) 10×His tag
Molecular Weight	The protein has a predicted molecular mass of 73.2 kDa after removal of the signal peptide. The apparent molecular mass of MUC16(13810-14451)-His is approximately 100-130 kDa due to glycosylation.
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	This gene encodes a protein that is a member of the mucin family. Mucins are high molecular weight, O-glycosylated proteins that play an important role in forming a protective mucous barrier, and are found on the apical surfaces of the epithelia. The encoded protein is a membrane-tethered mucin that contains an extracellular domain at its amino terminus, a large tandem repeat domain, and a transmembrane domain with a short cytoplasmic domain. The amino terminus is highly glycosylated, while the repeat region contains 156 amino acid repeats unit that are rich in serines, threonines, and prolines. Interspersed within the repeats are Sea urchin sperm protein Enterokinase and Agrin (SEA) modules, leucine-rich repeats and ankyrin (ANK) repeats. These regions together form the ectodomain, and there is a potential cleavage site found near an SEA module close to the transmembrane domain. This protein is thought to play a role in forming a barrier, protecting epithelial cells from pathogens. Products of this gene have been used as a marker for different cancers, with higher expression levels associated with poorer outcomes. [provided by RefSeq, May 2017]
Usage	Research use only
Conjugate	Unconjugated

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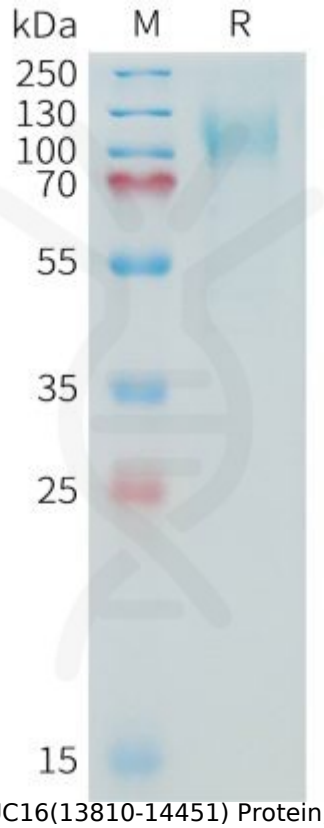


Figure 1. Human MUC16(13810-14451) Protein, His Tag on SDS-PAGE under reducing condition.

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